

CLAIMS

- 5 1. A communication control method for a data terminal which includes data communication module for transmitting data to or receiving data from another data terminal connected with the data terminal through a communication line, the method comprising the steps of:
- 10 detecting an interruption of the communication line; and
- when it is detected that the communication line is interrupted, reestablishing the communication line without informing the data communication module of the interruption of the communication line.
- 15 2. A communication control method according to claim 1 further comprising the step of judging whether to reestablish the interrupted communication line, wherein when it is detected that the communication line is interrupted, and it is judged
- 20 that the communication line should be reestablished, the communication line is reestablished without informing the data communication module of the interruption of the communication line.
- 25 3. A communication control method according to claim 2, wherein it is judged, based on a cause for the interruption of the communication line, whether to reestablish the communication line.

4. A communication control method according to claim 2 further comprising the step of diagnosing the condition of a network, wherein it is judged, based on the diagnosed condition of the network, whether to reestablish the communication line.

5. A communication control method according to claim 3 further comprising the step of diagnosing the condition of a network, wherein it is judged, based on the cause for the interruption of the communication line and the diagnosed condition of the network, whether to reestablish the communication line.

6. A communication control apparatus for controlling a data terminal with a data communication module for performing a data communication with another data terminal, the communication control apparatus comprising:
a detector for detecting an interruption of the communication line; and

a communication controller for reestablishing, when the detector detects an interruption of the communication line, the communication line without informing the data communication module of the interruption of the communication line.

7. A communication control apparatus according to claim 6 further comprising a judging module for judging whether to reestablish the interrupted

communication line, wherein when the detector detects an interruption of the communication line, and the judging module determines that the communication line should be reestablished, the communication controller reestablishes the interrupted communication line without informing the data communication module of the interruption of the communication line.

8. A communication control apparatus according to claim 7, wherein the judging module judges, based on a cause for the interruption of the communication line, whether to reestablish the interrupted communication line.

9. A communication control apparatus according to claim 7 further comprising a diagnosing module for diagnosing the condition of a network, wherein the judging module judges, based on the diagnosed condition of the network, whether to reestablish the interrupted communication line.

10. A communication control apparatus according to claim 8 further comprising a diagnosing module for diagnosing the condition of a network, wherein the judging module judges, based on the cause for the interruption of the communication circuit and the diagnosed condition of the network, whether to reestablish the interrupted communication line.

11. A communication control apparatus according to claim 9, wherein

5 the data communication module performs data communication through a portable terminal which wirelessly communicates with a radio base station, the diagnosing module determines whether or not the portable terminal is within a wireless zone formed by the radio base station, and

10 the judging module judges, based on whether or not the portable terminal is within the wireless zone, whether to reestablish the interrupted communication line.

12. A communication control apparatus according to claim 7 further comprising an inquiring module for
15 sending an inquiry as to the condition of the network to an external diagnosing module for diagnosing the condition of the network, wherein the judging module judges, based on the condition of the network diagnosed by the external diagnosing module,
20 whether to reestablish the interrupted communication line.

13. A storage medium that stores a communication
25 control program executed by a data terminal which includes data communication module for performing data communication with another data terminal through a communication line, the program comprising the steps of:

detecting an interruption of the communication line;

when it is detected that the communication line is interrupted, reestablishing the communication line without informing the data communication module of the interruption of the communication line.

14. A storage medium that stores a communication control program according to claim 13, the program further comprising the step of judging whether to reestablish the interrupted communication line, wherein when it is detected that the communication line is interrupted, and it is judged that the communication line should be reestablished, the communication line is reestablished without informing the data communication module of the interruption of the communication line.

15. A storage medium that stores a communication control program according to claim 14, wherein it is judged, based on a cause for the interruption of the communication line, whether to reestablish the communication line.

16. A storage medium that stores a communication control program according to claim 14, the program further comprising the step of diagnosing the condition of a network, wherein it is judged, based on the diagnosed condition of the network, whether to reestablish the communication line.

- 5 17. A storage medium that stores a communication control program according to claim 15, the program further comprising the step of diagnosing the condition of a network, wherein it is judged, based on the cause for the interruption of the communication line and the diagnosed condition of the network, whether to reestablish the communication line.